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ON A COLLECTION OF PLANTS FROM PATALKOT (M. P.)

H. O. SAXENA*

National Botanic Gardens, Lucknow

AND

S. G. SHUKLA

State Forest Research Institute, Jabalpur

ABSTRACT

The present communication records 419 species of vascular plants from Patalkot valley in East Chhindwara Forest Division of Madhya Pradesh. Four species (marked by an asterisk) are new record for Central India. Occurrence of few species of south and south-east India, also of coastal regions, namely *Senecio edgeworthii* Hook. f., *Crotalaria nana* Burm. f., *Epithema carnosum* Benth. and *Gnetum ula* Brongn. and of Himalayan species *Epipactis veratrifolia* Boiss. & Hohen. and *Aleuritopteris rufa* (D. Don) Ching, is very interesting.

INTRODUCTION

Patalkot, the beauty spot of Chhindwara district in Madhya Pradesh, is situated on the slopes of Satpura Mountains, 82 kilometers north-west to Chhindwara proper. As the name signifies (*Patal* means subterrans and *Kot* means fort) the view of the valley is like a fort in the subterran. The area is hilly; the peaks ranging in altitude from 800 metres to 1130 metres. The easternmost peak is the source of river Dudhi which draws most of its water through streams rising in Patalkot area.

Soil is mostly sandy having predominance of limestone. *'Barra'*, and *'Mot barra'* type of soils that occur, are of poor fertility for food crops.

CLIMATE

The average maximum temperature of the area is 40.5°C and minimum 4.4°C. Total annual rainfall varies from 127 to 152 cm ; maximum rainfall occurring in the month of July.

The forests are mainly of mixed type but teak forests and sal forests also occur over considerable areas.

The main tribes inhabiting the area are *Bharia* and *Gond*.

PRESENT STUDY

Patalkot remained botanically unexplored so far. There is no published account of the flora of the area. Hence keeping in view the importance of the area from floristic point of view, botanical collections were started in the year 1967.

Map of East Chhindwara Division

The total area of Patalkot valley covered in the present study is 80.3 sq. km. The main places of collection were—Rated, Doripatha, Karyam, Sukhabandh, Chimtipur, Bijadhana, Sidholi, Chhindi, Malni, Jad and Gotikhera. Collections were made continuously for two years in different seasons of the year.

*Formerly Forest Botanist, State Forest Research Institute, Jabalpur, M. P.

Total number of species of vascular plants recorded in the flora of the area is 419, of which four species (marked by an asterisk) are new records for central India. Occurrence of few species of south and south-east India, also of coastal regions, *e.g. Senecio edgeworthii* Hook. f., *Crotalaria nana* Burm. f., *Epithema carnosum* Benth. and *Gnetum ula* Brongn. and of Himalayan species *Epipactis veratrifolia* Boiss. & Hohen. and *Aleuritopteris rufa* (D. Don) Ching is very interesting.

In the following enumeration the nomenclature of species has been brought up-to-date. Local names, notes on occurrence, flowering and fruiting time and collection number of the junior author are given under each species. The specimens are preserved in the Herbarium of the State Forest Research Institute, Jabalpur.

ENUMERATION

RANUNCULACEAE

Clematis gouriana Roxb.
Rated, common. Fr. 11.3.68 (8646).
Loc. name: Bandarsiti.

C. triloba Heyne ex Roth
Rated, common (9286, 9690, 11618).
Loc. name: Jangli Bheda, Bandarsiti.

Thalictrum foliolosum DC.
Rated. Fl. & Fr. Aug.-Sept. (9712, 10546).
Loc. name: Kadu-chiretta, Mamri.

DILLENIACEAE

Dillenia pentagyna Roxb.
Douripatha, common. Fl. March (8655, 9810).
Loc. name: Suarukh, Suaped.

MENISPERMACEAE

Cissampelos pareira Linn.
Rated and Chimtipur, common. Fl. Sept. (9779, 10667).
Loc. name: Kadupad.

BERBERIDACEAE

Berberis asiatica Roxb. ex DC.
Rajakhoh, rare. Fl. & Fr. 11.3.67 (8647).
Loc. name: Daruhaldi.

PAPAVERACEAE

Argemone mexicana Linn.
Rated, common. Fl. 27.7.67 (9268).
Loc. name: Pila dhatura.

CRUCIFERAE

Brassica napus Linn.
Cultivated—Rated. Fl. 27.7.67 (9276).
Loc. name: Tori, Sarson.

CAPPARACEAE

Cleome monophylla Linn.
Rated, common. Fl. July (9178, 10532).
Loc. name: Hurhura.

FLACOURTIACEAE

Cochlospermum religiosum (Linn.) Alston
Rated, common. Fl. 15.3.67 (9130).
Loc. name: Ganyar, Gabdhi.

POLYGALACEAE

Polygala persicariaefolia DC.
Common. Fl. Sept. (9636, 12777).

DIPTEROCARPACEAE

Shorea robusta Gaertn. f.
Dominant forest species. Fl. 15.3.67 (9115).
Loc. name: Sarban, Sal.

BOMBACACEAE

Bombax ceiba Linn.
Salmalia malabarica (DC.) Schott & Endl.
Rated and Karyam, common. Fl. 9.3.67 (8615).
Loc. name: Semal.

MALVACEAE

Abutilon polyandrum (Roxb.) W. & A.
Chimptipur. Fl. 26.9.67 (9480).

Hibiscus lobatus (J. A. Murray) O. Ktze.
H. solandra L' Herit
Patalkot-Chhindwara (9748).

H. syriacus Linn.
Planted. Fl. 28.7.68 (9300).

Kydia calycina Roxb.
Rated, common in forest. Fl. & Fr. 22.9.67 (9622, 9767).
Loc. name: Dhaman, Pothi.

Sida acuta Burm. f. subsp. **acuta**
Common (9480, 9748).
Loc. name: Baryari.

S. spinosa Linn.
Chimptipur. Fl. 22.9.67 (9637).
Loc. name: Kharenti.

Urena lobata Linn. subsp. **lobata** var. **lobata**
Frequent. Fl. 23.9.67 (11605).
Loc. name: Bhinda.

STERCULIACEAE

Eriolaena hookeriana W. & A.
Frequent in forests. Fl. 22.9.67 (9618).
Loc. name: Jangli-adhni.

Helicteres isora Linn.
Common in valleys. Fl. & Fr. 18.11.67 (10663).
Loc. name: Anthi.

Sterculia urens Roxb.
Frequent in forests (12720).
Loc. name: Kulu, Gulu.

Waltheria indica Linn.
Rajakhoh, common. Fl. & Fr. 22.9.67 (9491).
Loc. name: Pittamara.

TILIACEAE

Grewia rothii DC.
Common in forest (9235).
Loc. name: Gursakri.

G. subinaequalis DC.
Patalkot in forest (9747).

Triumfetta pilosa Roth
Occasional in open forest (11939).

T. rhomboidea Jacq.
T bartramia Linn. (*nom. illegit*).
Common in waste places. Fl. 22.9.67 (9630, 10621).
Loc. name: Khirenti, Chippa.

LINACEAE

Linum mysorense Heyne
Rated, rare in open grassy places. Fl. 24.9.67 (9668).

L. usitatissimum Linn.
Patalkot, found as escape. Fl. 24.9.67.

GERANIACEAE

Geranium ocellatum Camb.
Common in moist shady places (9715, 9794, 10505, 13010).

OXALIDACEAE

Biophytum reinwardtii (Zucc.) Klotz.
Common. Fl. 17.11.67 (10608, 12782).
Loc. name: Lajanibuti.

Oxalis corniculata Linn.
Rated, common (9195, 9794, 10505, 13010).
Loc. name: Khatua.

O. latifolia H. B. & K.
Frequent. Fl. 28.7.67.
Loc. name: Khatunithi.

RUTACEAE

Aegle marmelos Corr.
Rated.

SIMAROUBACEAE

Balanitis roxburghii Planch.
Rated, common. Fl. 15.3.67 (9128).
Loc. name: Pendra.

BURSERACEAE

Boswellia serrata Roxb.
Frequent in mixed forests.
Loc. name: Sali, Morsajiwan.

MELIACEAE

Chloroxylon swietenia DC.
Rated, common. Fl. 14.3.67 (9103).
Loc. name: Bhiriya.

Melia azedarach Linn.
Rated, common. Fl. 14.3.67 (8614).
Loc. name: Gudneem.

CELASTRACEAE

Celastrus paniculatus Willd.
Chimtipur. Rated, common.
Loc. name: Malkagni.

RHAMNACEAE

Helinus lanceolatus Brandis
Rated, common (11905).

Ventilago maderaspatana Gaertn.
Sukhabandh, rare. Fr. 17.11.67 (10605).
Loc. name: Paktokai.

Zizyphus mauritiana Lamk.
Common.
Loc. name: Beri.

Z. xylopyra (Retz.) Willd.
Rated, common. 28.8.68 (13075).
Loc. name: Ghatos.

VITACEAE

Cayratia carnosa Gagnep.
Vitis trifolia Linn.
Rated. Fl. 25.9.67 (9689).
Loc. name: Amarkathi.

Leea crispa Linn.
Karyam, Rated, common. Fl. 26.9.67 (9708, 13017).
Loc. name: Hasiadhapan.

L. macrophylla Roxb. ex Hornem.
Rated, rare. Fl. 23.9.67 (9401, 9701).
Loc. name: Hathkan, Nagbel.

Tetrastigma lanceolarium Planch.
Rated, common. Fl. 25.9.67 (9742).
Loc. name: Poto bhaji.

SAPINDACEAE

Cardiospermum halicacabum Linn.
Bijadhana, common. Fl. & Fr. 25.8.68 (11991).
Loc. name: Habbe kilkil.

Dodonaea viscosa (Linn.) Jacq.
Rated, common. Fr. 14.11.67 (1820).
Loc. name: Sukha kamer.

ANACARDIACEAE

Buchanania lanzan Spreng.
Rated, common in forest. Fl. 5.3.67 (9112).
Loc. name: Char.

Mangifera indica Linn.
Frequent near villages and also in forests.
Loc. name: Am.

Rhus parviflora Roxb. ex DC.
Rated (11982).
Loc. name: Khatua.

Semecarpus anacardium Linn. f.
Rajakhoh (9199, 12766).
Loc. name: Bhilwa.

PAPILIONACEAE

Alysicarpus vaginalis (Linn.) DC.
Rated, common. Fl. & Fr. 25.10.67 (9684, 9726, 9734, 9867, 10518, 13006).
Loc. name: Lipti, Rasimli.

Arachis hypogaea Linn.
Patalkot, cultivated. Fl. 14.11.67 (9822).
Loc. name: Bada karla.

Atylosia scarabaeoides (Linn.) Benth.
Dudhi, common. Fl. 15.4.67 (9150, 11957).
Loc. name: Balarpatti.

A. volubilis (Blanko) Gamble
Rated, common. Fl. 15.4.67 (9124).
Loc. name: Jangli kimach.

Butea superba Roxb.
Rated, common. Fl. 9.3.67 (8608).
Loc. name: Belapalas.

Cicer arietinum Linn.
Rated, cultivated. Fl. 25.9.67 (9490).
Loc. name: Chana.

Clitoria ternatea Linn.
Rated. Fl. 28.7.67 (9298).

Crotalaria albida Heyne ex Roth
Chimtipur, common. Fl. & Fr. 23.11.67 (9487, 9631, 9681, 10610).
Loc. name: Machitod jadi, Bansaljadi, Jangalsan.

C. burhia Buch.-Ham.
Rated, rare. Fl. & Fr. 12.3.67 (8667).
Loc. name: Phulgrim, Nilkanthi.

C. calycina Schrank
Rated, rare. Fr. 24.2.68 (11986).

C. juncea Linn.
Chimtipur (9661).
Loc. name: Sunn.

C. linifolia Linn. f.
Common. Fl. 27.9.67 (9762).

C. nana Burm. f.
Sukhabandh. Fr. 23.2.68 (11955).

C. prostrata Rottl. ex Willd.
Rated, common. Fl. 29.9.67 (9800).

C. sericea Retz.
Rated. Fr. 23. 11. 67 (9483).
Loc. name: Phulgad.

Desmodium gangeticum (Linn.) DC.
Fairly common in forest undergrowth. Fl. & Fr. 24.9.67 (9681).

D. heterocarpum (Linn.) DC.
D. polycarpum (Poir.) DC.
Rated, common (9422, 9823, 10647).
Loc. name: Ramlachman, Chappa.

D. latifolium DC.
Common in forest. Fl. 23.9.67 (9603).

D. motorium (Houtt.) Merr.
D. gyrans (Linn. f.) DC.
Malni, common. Fr. 23.11.67 (9500).
Loc. name: Chitrangi.

D. triflorum (Linn.) DC.
Rated, common. Fl. & Fr. 15.11.67 (9691, 9876, 13004).
Loc. name: Khatti imli, Amti.

Erythrina suberosa Roxb.
Rated, common. Fl. 11.3.67 (8624).
Loc. name: Panjara.

Heylandia latebrosa DC.
Chimtipur, common. Fl. 16.4.67 (9167).

Indigofera cassioides Rottl. ex DC.
I. pulchella auct. non DC.
Rated, common. Fl. 12.3.67 (8605, 8666, 11909).
Loc. name: Birhul.

I. glandulosa Willd.
Chimtipur, common. Fl. & Fr. 24.9.67 (9669, 9785, 10534).
Loc. name: Bilonchi, Chipti.

I. linifolia (Linn. f.) Retz.
Rated (19511, 1195).

I. tinctoria Linn.
Rated. Fl. 22.8.68 (10531).

Millettia auriculata Bak. ex Brand.
Rated. Fr. 26.2.68 (13011).
Loc. name: Golhari, Khathera.

Moghania bracteata (Roxb.) H. L. Li
Rated, common. Fl. & Fr. 18.11.67 (10640, 11971).
Loc. name: Mukhbanda.

M. stricta (Roxb.) O. Ktze.
Rated, common in forest. Fr. 11.3.67 (8653).

Phaseolus aureus Roxb.
P. radiatus auct. non Linn.
Chimtipur. Fl. 23.9.67 (9642).
P. mungo Linn.
Rated. Fl. & Fr. 16.11.67 (10653, 12773).
Loc. name: Vanurda.
Pueraria tuberosa DC.
Sukhabandh, common. (15769).
Loc. name: Bharda Kand.
Sophora interrupta Bedd.
Rated, common. Fr. 18.11.67 (10612, 11614).
Loc. name: Biroli.
Zornia gibbosa Spanoghe
Z. diphylla auct., non Pers.
Rated. Fl. Sept. (9417, 9678).

CAESALPINACEAE

Bauhinia vahlii W. & A.
Rated, common. Fr. 23.7.67 (9226, 9625).
Loc. name: Mahul.
B. variegata Linn.
Rated, common. Fl. 14.3.67 (8692).
Loc. name: Sona, Kachnar.
Caesalpinia decapetala (Roth) Alston
C. sepiaria Roxb.
Rated, common. Fl. 11.3.67 (8623).
Loc. name: Kirkach, Khirkachi.
Cassia fistula Linn.
Karyam, in forest.
Loc. name: Jhagdo.
C. mimosoides Linn.
Chimtipur. Fl. 24.8.68 (12778).
C. pumila Lam.
Rated. Fl. 23.7.67 (9634, 9680).
Loc. name: Meshi imli.
C. tora Linn.
Rated, common.
Loc. name: Chekora.

MIMOSACEAE

Acacia catechu (Linn. f.) Willd.
Rated.
Loc. name: Khair.
A. torta (Roxb.) Craib.
Rated. Fl. 20.2.68 (11906).

ROSACEAE

Potentilla supina Linn.
Bijadhana, rare. Fr. 9.3.67 (8603).
Loc. name: Nakchhikni.

CRASSULACEAE

Bryophyllum calycinum Salisb.
Chimtipur, rare. Fl. 25.2.68 (11996).
Loc. name: Khatua.

DROSERACEAE

Drosera burmanii Vahl
Rated, in marshy places. Fr. 16.3.67 (9157, 9158).
Loc. name: Rurni Jhurni.

COMBRETACEAE

Anogeissus pendula Edgew.
Rated, common. Fr. 28.7.67 (9410).
Loc. name: Kaladhawada.
Terminalia arjuna W. & A.
Rated, common. Fr. 19.7.67 (9173).
Loc. name: Kohua.
T. chebula Retz.
Bijadhana, common. Fl. 14.3.67 (8691).
Loc. name: Hawa.

MYRTACEAE

Syzygium cumini (Linn.) Skeels
Rated, common. Fl. 15.3.67 (8626).
Loc. name: Chhotijaman.

LECYTHIDACEAE

Careya arborea Roxb.
Common, in forest (9111).
Loc. name: Kumbha.

MELASTOMATACEAE

Melastoma malabathricum Linn.
Rated, rare. Fl. 14.11.67 (9140, 9344).
Loc. name: Dasond.

LYTHRACEAE

Ammannia baccifera Linn.
Rated, common in moist places. Fr. 24.2.68 (11968, 11970, 11988).
Loc. name: Kanjaliya.
A. rotundifolia (Buch.-Ham.) Koehne
Rated. Fl. 28.7.67 (9418).
Lagerstroemia parviflora Roxb.
Sukhabandh. Fr. 24.9.67 (9688).
Loc. name: Lendia.
Woodfordia fruticosa Kurz
Common in forest. Fl. & Fr. 24.2.68 (8629, 11965).
Loc. name: Dhawai, Surtili, Dhawan.

ONAGRACEAE

Ludwigia octovalvis (Jacq.) Raven subsp. **octovalvis**
Jussiaea suffruticosa Linn.
Karyam. Fl. 25.9.67 (9678, 9692).

SAMYDACEAE

Casearia graveolens Dalz.
Karyam, common in forest. Fr. 15.3.67 (9136).
Loc. name: Tondri.

CUCURBITACEAE

Cucumis melo Linn.
Karyam (9639, 12722, 13037).

C. sativus Linn.
Karyam (9615, 9672, 10502).
Loc. name: Kachariya.

Diplocyclos palmatus (Linn.) Jaffery
Bryonia laciniosa auct. non Naud.
Rated. Fl. & Fr. 25.9.67 (9613).
Loc. name: Chichargoti.

Melothria maderaspatana (Linn.) Cogn.
Rated, common (9784, 13048).

Trichosanthes bracteata (Lam.) Voigt.
Chimtipur, rare. Fl. 22.9.67 (9617).
Loc. name: Indrayan.

T. cucumerina Linn.
Chimtipur. Fl. Sept. (9743, 9766).

BEGONIACEAE

Begonia picta Sm.
Rated, in moist shady places. Fl. & Fr. 22.9.67 (9601, 9796, 13015).
Loc. name: Khattipatti, Patharchata.

FICOIDEAE

Mollugo pentaphylla Linn.
Sukhabandh, common. Fl. 21.7.67 (9201, 10509, 13002).
Loc. name: Sukhajadi.

UMBELLIFERAE

Bupleurum mucronatum W. & A.
Rated. Fr. 21.2.68 (11937).

Centella asiatica (Linn.) Urban
Rated, along water courses. Fr. 17.11.67 (9297, 10615).
Loc. name: Brahmi, Pataljadi, Brahma.

Hydrocotyle sibthorpioides Lam.
H. rotundifolia Roxb. ex DC.
Dudhi, along streams (*Shukla* s.n.).
Loc. name: Chhoti Brahmi.

Pimpinella bracteata Wall.
Rated. Fl. & Fr. 17.11.67 (10617).
Loc. name: Jangli masala.

P. monoica Dalz.
Rated, common. Fl. & Fr. 27.9.67 (9756, 9736, 9841).
Loc. name: Tinpano.

RUBIACEAE

Borreria articularis (Linn. f.) Williams.
B. hispida (Linn.) Schum.
Rated (9291, 9697).

B. stricta (Linn. f.) K. Schum.
Gotikheda, common. Fl. & Fr. 18.11.67 (9638, 9773, 10646, 10535).
Loc. name: Singwala.

Gardenia latifolia Ait.
Rated. Fr. 15.11.67 (9859).
Loc. name: Papra.

Mitragyna parvifolia Korth.
Chimtipur. Fl. 12.11.67 (12689).
Loc. name: Mundi.

Oldenlandia affinis (R. & S.) DC.
O. dichotoma (Koen. ex Roth) Hk. f. non Spreng.
Malni, common. Fl. & Fr. 19.11.67 (10671).
Loc. name: Bicchubuti.

O. corymbosa Linn.
Rated, common weed. Fl. & Fr. 23.9.67 (8652, 9626, 9643, 9728).
Loc. name: Dhadra.

O. diffusa (Willd.) Roxb.
Rated. Fl. 25.7.67 (9256).

O. gracilis DC.
Bijadhana, common. Fl. & Fr. 9.3.67 (8604).
Loc. name: Surjini Choli.

Wendlandia exerta DC.
Chimtipur, common. Fl. 11.3.67 (9630).
Loc. name: Tilwan.

COMPOSITAE

Acanthospermum hispidum DC.
Rated, common. Fl. & Fr. 23.11.67 (9453).
Loc. name: Bichhiya Kanta.

Adenostemma lavenia (Linn.) O. Ktze.
Chhindi. Fl. 22.8.68 (10508).

Ageratum conyzoides Linn.
Common (9484, 9765).
Loc. name: Gangawan.

Artemisia parviflora Buch.-Ham. ex Roxb.
Rated, common. Fl. 24.9.67 (9670, 11908).
Loc. name: Panch Piper.

Bidens biternata (Lour.) Murr. & Sherff.
B. pilosa auct. non Linn. var. *bipinnata* Hook. f.
Common in waste places (9651, 9730).

Blumea bifoliata DC.
Rated. 12.3.67 (8677).

B. eriantha DC.
Patalkot. Fl. 18.11.67 (10665).

B. fistulosa Kurz
Rated, common. Fl. 15.3.69 (8674, 9135).
Loc. name: Dhus.

B. laciniata DC.
Chimtipur. 12.3.67 (8680).

Blumea mollis (D. Don) Merr.
Rated. 24.2.68 (11966).
B. oxyodonta DC.
Rated. 15.9.67 (9733).
B. virens DC.
Rated. 22.11.67 (10699).
Loc. name: Bodel Khekri.
Blumeopsis flava (DC.) Gagnep.
Rated, rare. Fl. & Fr. 18.11.67 (9495, 10642).
Loc. name: Murva.
Caesulia axillaris Roxb.
Chimtipur, common. Fl. 19.11.67 (10634, 10660).
Loc. name: Chhoti nirgundi, Balonda.
Conyza stricta Willd.
Bijadhana. Fl. 25.9.67 (9788).
Loc. name: Batkari.
Cyathocline purpurea (Buch-Ham. ex D. Don) O. Ktze.
C. lyrata Cass.
Rated, common along streams. Fl. 9.3.67 (8622, 9871).
Echinops echinatus Roxb.
Rated, common in dry waste places. Fl. 9.3.67 (8602).
Loc. name: Utkatara, Brahmadandi.
Eclipta prostrata (Linn.) Linn.
Common in moist places. Fl. 26.9.67 (11621).
Elephantopus scaber Linn.
Rated, common. Fl. 28.9.67 (9753).
Loc. name: Bajrangbuti, Jobhi.
Emilia sonchifolia (Linn.) DC.
Rated. (9295, 9630).
Galinsoga parviflora Cav.
Rated. Fl. 22.9.67 (9628, 9719).
Gnaphalium affine D. Don
(*G. luteo-album* auct. non Linn.)
Dudhi, common. Fl. 23.9.67 (9627).
Lagascea mollis Cav.
Rajakhoh. Fl. 23.7.67 (9220, 9660).
Loc. name: Ghamara, Kudaiphul.
Laggera alata (D. Don) Schultz-Bipont ex Oliver
Rated, common. Fl. & Fr. 19.11.67 (9138, 10669).
Loc. name: Tindharia, Sapbuti.
Launaea nudicaulis Less.
Rated, common. Fl. & Fr. 16.11.67 (9890).
Loc. name: Dhutera.
Pulicaria angustifolia DC.
Rated. Fl. & Fr. 26.9.67 (9717).
***Senecio edgeworthii** Hook. f.
Patalkot, among rocks (9718, 13016).
S. nudicaulis Buch.-Ham.
Rated. Fl. 9.3.67 (8606).
Loc. name: Vangoshi.
S. wightii Benth.
S. saxatilis Hook. f. non Wall.
Patalkot, along river banks. Fl. Feb. (11927, 11918, 10646, 11978).
Siegesbeckia orientalis Linn.
Rated. Fl. 25.9.67 (9667, 9702).
Sphaeranthus indicus Linn.
Rated, common weed. Fl. 17.11.67 (10633, 12000).
Spilanthes paniculata Wall. ex DC.
S. acmella auct. non Murr.
Douripatha, common. Fl. 17.11.67 (4503, 10682).
Loc. name: Marethi.
Tridax procumbens Linn.
Rated, common. Fl. 19.7.67 (9189).
Loc. name: Baramashi.
Vernonia cinerea (Linn.) Less.
Rated, common. Fl. 12.9.67 (8620, 8685, 9184, 9497, 9706, 11620).
Loc. name: Marjadi.
V. divergens (Roxb.) Edgew.
Rated, common. Fr. 12.3.67 (8676, 9818, 9870, 10625, 11940).
Loc. name: Kukrenda, Dhus.
Vicoa indica (Linn.) DC.
Rated. Fl. 23.9.67 (11617).
Wedelia urticaefolia DC.
Rated. Fl. 25.9.67 (9662, 9745, 9794, 10543).
Xanthium strumarium Linn.
Rated. Fl. 25.9.67 (11613).
Loc. name: Chhota gokhuru.

CAMPANULACEAE

Campanula wallichii Babu
C. canescens Wall. ex DC. non Roth
Patalkot. Fl. 21.2.68 (11935)
Lobelia heyneana R. & S.
L. trialata Buch.-Ham. ex D. Don.
Karyam. Fl. 25.9.67 (9697).

PLUMBAGINACEAE

Plumbago zeylanica Linn.
Rated, rare. Fl. & Fr. 25.2.68 (9427, 9616, 11989).
Loc. name: Chitawar.

PRIMULACEAE

Anagallis pumila Sw.
Rated, rare, 14.4.67 (9105).
Lysimachia obovata Hook. f.
Rated. Fl. 28.3.67 (9192).

MYRSINACEAE

Embelia tsjeriam-cottam (R. & S.) A. DC.
Rated, common in forest. Fl. 29.9.67 (9749).
Loc. name: Pircumbij.

SAPOTACEAE

Madhuca indica Gmel.
M. latifolia (Roxb.) Macbride
Rated, common. Fl. 14.4.67 (9105).
Loc. name: Mahua.

Manilkara hexandra (Roxb.) Dub.
Minusops hexandra Roxb.
Rated. Fl. 20. 2. 68 (11921).

EBENACEAE

Diospyrus melanoxylon Roxb.
Occasional in forests.
Loc. name: Tendu.

OLEACEAE

Jasminum sambac (Linn.) Ait.
Rated, planted. Fl. 19.7.67 (9180).

Nyctanthes arbor-tristis Linn.
Rated, common in open mixed forests. Fl. 29.9.67 (9776, 10541).
Loc. name: Jinkhua, Siharu.

Schrebera swietenioides Roxb.
Patalkot in forest. Fr. 22.8.68 (10563).
Loc. name: Pader Karndi.

APOCYNACEAE

Carissa opaca Stapf ex Haines
Rajakhoh, common. Fl. 9.3.67 (8641).
Loc. name: Karonda.

Catharanthus roseus (Linn.) Don
Vinca rosea Linn.
Chimtipur, planted. Fl. 25.2.68 (11997).
Loc. name: Sadasuhagan.

Ichnocarpus frutescens (Linn.) Ait. & Ait. f.
Rated, common. Fl. & Fr. 16.3.67 (9164).
Loc. name: Bhutbel, Karibel, Chhotinagbel.

Nerium indicum Mill.
Chimtipur, planted. Fl. 11.3.62 (8625).

ASCLEPIADACEAE

Calotropis gigantea (Linn.) Dryand
Rated. Fl. 17.3.67 (*Shukla* s.n.).
Loc. name: Akona, Akua.

Ceropegia hirsuta Roxb.
C. vincaefolia Hook. f.
Rated, common. Fl. 28.9.67 (9803).
Loc. name: Kisanmati.

Cryptolepis buchananii R. & S.
Rated, common. Fl. 19.7.67 (9182).
Loc. name: Karibel, Bhutbel.

Gymnema sylvestre (Retz.) Schultz.
Rajakhoh, rare. Fl. 17.9.67 (*Shukla* s.n.).
Loc. name: Phulkati.

Hemidesmus indicus (Linn.) Schultz.
Chimtipur, common. 17.11.67 (10666).
Loc. name: Kameli, Dudhi.

GENTIANACEAE

Canscora diffusa (Vahl) R. Br.
Common (8658, 9161, 9852, 10657, 11920).

Exacum pedunculatum Linn.
Sukhabandh Fl. 23.9.67 (9696).

Hoppea dichotoma Willd.
Rated. Fr. 24.2.68 (11983).

BORAGINACEAE

Cynoglossum lanceolatum Forsk.
C. micranthum Desf.
Rated. Fl. & Fr. 27.9.67 (9473, 9605, 9675, 9789).
Loc. name: Hathi bendi.

C. zeylanicum (Vahl ex Horn.) Thunb.
Rated. Fr. 20.2.68 (11923).

Heliotropium strigosum Willd.
Rated, common. Fl. 21.7.67 (9207).
Loc. name: Muta.

Trichodesma indicum R. Br.
Dudhi, common. Fl. 19.7.67 (9174, 10525, 11907).
Loc. name: Hetmudia, Utran.

CONVOLVULACEAE

Argyreia sericea Dalz.
Rated. Fl. 24.9.67 (9665).

A. nervosa (Burm. f.) Boj.
A. speciosa Sweet
Rated. Fl. 26.8.68 (10553, 13027).

A. strigosa (Roth) Sant. & Patel
A. setosa (Roxb.) Choisy
Douripatha, common. Fl. 26.8.68 (10553, 13027).
Loc. name: Sahad Kand.

Convolvulus arvensis Linn.
Rated. Fl. 17.11.67 (10632).

Cuscuta reflexa Roxb.
Rated, common. Fl. 16.11.67 (9887).
Loc. name: Alajjhari Amarbel.

Evolvulus alsinoides (Linn.) Linn.
Rated, common. Fr. 21.2.68 (9194, 10677, 11931).
Loc. name: Shankhuli.

Ipomaea cairica (Linn.) Sweet
I. palmata Forsk
Chimtipur. Fl. 28.7.67 (9424).

I. muricata Jacq.
Rated. Fl. 28.8.68 (13083).

I. nil (Linn.) Roth
Along the banks of Dudhi river. Fl. 23.9.67 (9641).

Ipomaea quamoclit Linn.
Planted and often spreading as an escape. Fl. 23.11.67 (9437, 11623).

SOLANACEAE

Cestrum nocturnum Murray
Chimtipur. Fl. 22.8.67 (10552).

Lycopersicon lycopersicum (Linn.) Karsten
Douripatha, cultivated; also found as an escape. Fl. & Fr. 22.11.67 (9488, 10692).
Loc. name: Tamatar.

Nicandra physaloides Gaertn.
Karyam. Fr. 18.11.67 (10664).
Loc. name: Chirpota.

Nicotiana plumbaginifolia Viv.
Douripatha, Fl. & Fr. 10.11.67 (10655).
Loc. name: Tamakhu.

Solanum incanum Linn.
Rated, common. Fl. & Fr. 11.3.67 (8651, 13021).
Loc. name: Banbhata, Katai.

S. indicum Linn.
Rated. Fl. & Fr. 28.7.67 (9431, 10565, 11609, 12776).
Loc. name: Bhatkatai, Katai.

S. nigrum Linn.
Chimtipur. Fl. 15.2.68 (9608, 11995).

S. surattense Burm. f.
S. xanthocarpum Schrad. & Wendl.
Rated, common. Fl. & Fr. 19.11.67 (8610, 9425, 10681).
Loc. name: Bhat Katiya, Chhoti Kateri.

SCROPHULARIACEAE

Kickxia ramosissima (Wall.) Janchen
Rated. (8673, 9474, 9485, 11929).

Lindernia anagallis (Burm. f.) Pennell
Rated. Fl. 28.7.67 (9258, 9420).

L. ciliata (Colsm.) Pennell
Sukhabandh. Fl. 28.9.67 (9768).

L. sessiliflora (Benth.) Wettst.
Rated. Fl. 28.9.67 (9780).

Scoparia dulcis Linn.
Rated, common Fl. 27.7.67 (9287, 13001).
Loc. name: Dantjadi.

GESNERACEAE

Epithema carnosum Benth.
Rated, on moist rocks. Fl. 24.7.67 (9234).
Loc. name: Ekpatiya.

BIGNONIACEAE

Oroxylum indicum (Linn.) Vent.
Chimtipur, rare. Fl. 22.8.68 (10551).
Loc. name: Bhespadar, Nagphan.

PEDALIACEAE

Martynia annua Linn.
Rated, rare. Fr. 12.3.67 (9801).
Loc. name: Bodan Kata.

Sesamum indicum Linn.
Cultivated and also spreading as escape.
Loc. name: Til.

ACANTHACEAE

Adhatoda vasica Nees
Occasional in waste places (*Shukla* s.n.).
Loc. name: Adusa.

Andrographis paniculata Nees
Rated, common. Fl. & Fr. 18.11.67 (10643).
Loc. name: Chirata.

Barleria cristata Linn.
Rated. common. Fl. & Fr. 17. 11. 67 (10623, 10658).
Loc. name: Bhandari, Bhandaro.

B. montana Nees
Chimtipur. Fl. & Fr. 19.11.67 (10659).
Loc. name: Bhandaro.

B. strigosa Willd.
Rated, common. Fl. & Fr. 14.11.67 (9832).
Loc. name: Badi mohel.

Blepharis maderaspatensis (Linn.) Roth subsp. **maderaspatensis**
B. boerhaviaefolia Pers.
Rated. Fl. 17.11.67 (10613, 11616).

Eranthemum purpurascens Nees
Daedalacanthus purpurascens J. And.
Rated. Fl. 23.11.67 (9482, 11917).
Loc. name: Majli Bhandari.

Hemigraphis latebrosa (Heyne ex Roth) Nees
Patalkot-Chhindwara (11904).

Justicia betonica Linn.
Rated, common. Fl. 23.9.67 (9648).
Loc. name: Hadpat.

J. diffusa Willd.
Rated, common. Fl. 26.9.67 (9720).
Loc. name: Riechgatti.

J. quinquengularis Koen. ex Roxb.
Rated. Fl. & Fr. 22.2.68 (10544, 1958, 11987).
Loc. name: Jangal japni.

J. simplex D. Don
Rated. Fl. 14.11.67 (9807).

Lepidagathis cristata Willd.
Rated, common. Fl. & Fr. 18.11.67 (10641).
Loc. name: Ricchgatti.

Petalidium barlerioides Nees
Rated, common. Fl. 12.3.67 (8669).
Loc. name: Hatua.

Rungia pectinata Linn.
Rated. Fl. 25.3.67 (11990).
Strobilanthes edgeworthiana Nees
Rated, common. Fl. & Fr. 21.2.68 (8601, 9834, 10644, 11941).
Loc. name: Bhandara, Dokar bhandari, Dona, Dokarbadi.
S. callosus Nees
Rated, common in forest. Fl. 25.7.67 (9250).
Loc. name: Maruadona, Sapbuti.

VERBENACEAE

Clerodendrum serratum (Linn.) Moon
Rated, common in open places. Fl. 23.9.67 (9647).
Loc. name: Borwal.
Lantana camara Linn. var. **aculeata** (Linn.) Moldenke
Bijadhana. Fl. 21.7.67 (9219).
Loc. name: Naorangi.
Tectona grandis Linn. f.
Rated.
Loc. name: Sagon.

LABIATAE

Anisochilus carnosus Wall.
Rated. Fl. 28.9.67 (8602, 9740).
Loc. name: Bada mundi.
Anisomeles indica (Linn.) O. Ktze.
Rated, common. Fl. 20.9.67 (9740).
Loc. name: Bhandari.
Colebrookea oppositifolia Sm.
Rated. Fl. & Fr. 9.3.67 (8601).
Loc. name: Dona, Bhandari.
Hyptis suaveolens Poit.
Chimtipur. Fl. & Fr. 19.11.67 (10656).
Loc. name: Dona.
Lavandula bipinnata (Roth) O. Ktze. var. **rothiana** O. Ktze.
Rated, common. Fl. 23.7.67 (9221).
Loc. name: Jangliganja.
Leonotis nepetaefolia R. Br.
Rated, common. Fl. & Fr. 22.11.67 (10690).
Loc. name: Bhimal gutta, Badbhodra.
Leucas aspera Spreng.
Patalkot in moist situations. Fl. & Fr. March-Aug. (10503, 11954, 12795).
Loc. name: Bhodaki.
L. martinicensis R. Br.
Patalkot. Fl. 23.9.67 (9475).
L. mollissima Wall. var. **scaberula** Hook. f.
Rated, common. Fl. 27.9.67 (9722, 9808, 10542, 10622).
Loc. name: Bhodaki, Dona.
L. lanata Benth.
Rated. Fl. & Fr. 20.2.68 (11911).
L. zeylanica R. Br.
Patalkot. Fl. 25.9.69 (9699).
Micromeria biflora Benth.
Rated, common. Fl. 11.3.67 (8649, 9838, 11930).
Nepeta hindostana (Roth) Haines
Rated. Fl. 21.2.68 (8668, 11932).
Ocimum canum Linn.
Rated, common. Fl. & Fr. 17.11.69 (9185).
Loc. name: Mamri, Jangal Tulsi, Nimbu Tulsi.
Orthosiphon rubicundus Benth.
Rated. Fl. 24.7.67 (9240).
Plectranthus mollis (Ait.) Spreng.
Rated, common. Fl. 24.8.68 (12775).
Loc. name: Khatmeu, Tiladari.
P. rugosus Wall.
Rated. Fr. 20.2.68 (8613, 9439, 9721, 11915).
Loc. name: Bada jamras.
Pogostemon benghalensis (Burm. f.) O. Ktze.
Chimtipur. Fl. 12.3.67 (8628, 8684).

NYCTAGINACEAE

Boerhavia diffusa Linn.
Rated. Fl. 21.7.67 (9218).
Loc. name: Dabbal bhaji, Pather chata.

AMARANTHACEAE

Achyranthes aspera Linn.
Chimtipur. Fl. 25.9.67 (9791).
Loc. name: Kutta.
A. bidentata Blume
Chimtipur. Fl. 28.8.68 (13087).
Amaranthus hybridus Linn. subsp. **cruentus** (Linn.) Thell. var. **paniculatus** (L.) Thell.
Rated, rare. Fl. & Fr. 11.3.67 (8648).
Loc. name: Lal rogjir.
A. spinosus Linn.
Rated. Fl. 27.7.67.
Loc. name: Cholai.
Celosia argentea Linn.
Rated. Fl. 23.11.67 (9477, 9761).
Gomphrena celosioides Mart.
Chimtipur, common weed. Fl. 21.7.67 (9211).
Loc. name: Kashpatra.

POLYGONACEAE

Polygonum plebeium R. Br.
Rated, common. Fl. 9.3.67 (8611, 8643, 9225).
Loc. name: Chana, Chini.
P. stagninum Buch.-Ham.
Rated, common. Fl. 22.2.68 (11950).

LORANTHACEAE

Scurrula cordifolia (Wall.) G. Don.
Rated, common. Fr. 15.3.67 (9102, 9107, 9170, 9878, 10637, 10638).
Loc. name: Badbanda, Amla banda, Ravan banda.

Viscum nepalense Spreng.
Rated, common. Fr. 14.4.67 (9106, 9108).
Loc. name: Pasibanda, Berbanda.

EUPHORBIACEAE

Antidesma diandrum (Roxb.) Roth
Rated, rare. Fl. 24.7.67 (9243).
Loc. name: Khatua.

Chrozophora prostrata Dalz.
Rated. Fr. 25.2.68 (11998).

Emblica officinalis Gaertn.
Rated, occasional in forests.
Loc. name: Amali.

Euphorbia geniculata Orteg.
Dudhi, common weed. Fr. 22.2.68 (10515).

E. hirta Linn.
Rated, common weed. Fl. 21.7.67 (9202).
Loc. name: Dudhi.

E. nivulia Buch.-Ham.
Rajakhoh, common. Fl. 11.3.67 (8650, 9703, 9782).
Loc. name: Thuhar.

E. prostrata Ait.
Rated. Fl. & Fr. 25.2.68 (11993).

E. rosea Retz.
Rated. Fl. & Fr. 22.2.68 (11953, 11999).

E. thymifolia Linn.
Rated. Fl. 23.7.67 (9227).

Glochidion velutinum Wight
Rated, occasional in forests. Fl. & Fr. 28.9.67 (9262, 9739).
Loc. name: Chhoti bhandari, Kasai.

Jatropha curcas Linn.
Bijadhana, common. Fl. 19.7.67 (9196, 10566).
Loc. name: Ratanjot, Chandrajot.

Mallotus philippensis (Lam.) Muell.-Arg.
Occasional in forests.

Phyllanthus debilis Buch.-Ham.
Chimtipur, common. Fl. 26.8.68 (13029).
Loc. name: Bhuiamla.

P. fraternus Webster.
(*P. niruri* auct. non Linn.)
Rated, common. Fl. 21.7.67 (9208, 10693).
Loc. name: Bhui imli.

P. maderaspatensis Linn.
Chimtipur. Fl. & Fr. 9.3.67 (8621).

Ricinus communis Linn.
Often grown near villages.
Loc. name: Andi.

Sebastiana chamaelea Muell.-Arg.
Rated. Fr. 24.2.68 (11976).

ULMACEAE

Trema orientalis (Linn.) Bl.
Rated, occasional in forests. Fl. 25.9.67 (9767).

URTICACEAE

Girardinia palmata (Forsk.) Gaud.
G. heterophylla Decne.
Chimtipur, common. Fl. & Fr. 22.9.67 (9519).
Loc. name : Saurka.

MORACEAE

Ficus bengalensis Linn.
Rated. Receptacles: 14.3.67 (9109).
Loc. name: Bad, Bar.

F. hispida Linn. f.
Rated. Receptacles: 15.3.67 (9129).
Loc. name: Kadumar.

F. microcarpa Linn.
F. retusa auct. non Linn.
Chimtipur. Receptacles: 14.3.67 (8694).
Loc. name: Pakad.

F. religiosa Linn.
Found round about villages.

F. tinctoria Forst. f. subsp. **parasitica** (Willd.) Corner
F. gibbosa Bl. var. *parasitica* (Koen. ex Willd.) King.
Chimtipur. Receptacles: 22.9.67 (9624, 10526, 13028).
Loc. name: Pakad.

F. virens Ait.
F. infectoria Sensu Roxb.
Rated. Receptacles: 24.9.67 (9624, 8671).
Loc. name: Gular.

GNETACEAE

***Gnetum ula** Brongn.
Sukhabandh, 26.8.68 (13022).
Loc. name: Gandhela.
This is a species of Western Ghats and eastern coast; its record of occurrence in Central India is interesting.

ORCHIDACEAE

***Epipactis veratrifolia** Boiss. & Hohen, Diagn. Scr. 1. 13: 11, 1842.
E. consimilis Wall. Cat. 7403, 1832 nom. nud. ex Hook. f. Fl. Brit. Ind. 6: 126, 1890, non D. Don 1825.
Rare in moist places. Fl. 14.3.67 (8698).
Loc. name: Jangal kaner.

This is a new record for Central India, hitherto known from Himalaya.

Eulophia sp.
Malini, 22.8.68 (10345).
Loc. name: Safed musli.

Peristylus constrictus Lindl.
Habenaria constricta Hook. f.
Rated, common. Fl. 24.7.67 (9244).
Loc. name: Safed musli.

Rhynchostylis retusa Bl.
Rated, epiphytic. Fr. 15.11.67 (9865).

Vanda roxburghii R. Br.
Common epiphyte (*Shukla* s.n.).
Loc. name: Banda.

MUSACEAE

Musa sapientum Linn.
Near Karyam in shady valleys.
Loc. name: Bankela, Jangli kela.

MARANTACEAE

Phrynium parviflorum Roxb.
Patalkot. (9645).
Loc. name: Jangli kelà.

ZINGIBERACEAE

Costus speciosus (Koenig) Sm.
Rated, common. Fl. & Fr. 14.11.67 (9827).
Loc. name: Keokand.

Curcuma angustifolia Roxb.
Rated, common. Fl. 26.8.67 (13040, 13045).
Loc. name: Ganji, Jangli kachur.

Globba bulbifera Roxb.
Rated. Fl. 26.9.67 (9713).
Loc. name: Kanhaiya kand.

Zingiber roseum Rosc.
Chimtipur. Fl. 14.11.67 (9814, 9828).
Loc. name: Jangli adrak, Vanadrak.

HYPOXIDACEAE

Curculigo orchioides Gaertn.
Chimtipur, common. Fl. 27.7.67 (9824, 9278).
Loc. name: Kali musli.

DIOSCOREACEAE

Dioscorea belophylla Voight
Rated, common. Fl. & Fr. 26.9.67 (9713).
Loc. name: Kanhaiya kand.

D. bulbifera Linn.
Rated, common. Fr. 28.2.68 (13084).
Loc. name: Kadu kand.

D. hispida Dennst.
Chimtipur. Rated. Fl. July-Aug. (9804, 13046).

D. oppositifolia Linn.
Douripatha, common. Fl. 27.8.68 (13044).
Loc. name: Kirchi kand, Kirchmati.

D. pentaphylla Linn.
Rated, common. Fl. 27.7.67 (9280).
Loc. name: Barahi kand.

LILIACEAE

Asparagus racemosus Willd.
Chimtipur, common. Fr. 24.2.68 (11972).
Loc. name: Marbodh.

Chlorophytum tuberosum Baker
Rated, common. Fl. & Fr. 24.7.67 (9245).
Loc. name: Safed musli.

Gloriosa superba Linn.
Chimtipur, rare. Fl. 24.7.67 (9233).
Loc. name: Kalihara.

Urginea indica Kunth.
Rated, common. Fl. & Fr. 28.7.67 (9290).
Loc. name: Jangli piaz.

COMMELINACEAE

Commelina hasskarlii C. B. Cl.
Dudhi. Fl. 23.7.67 (9231, 9797).

C. suffruticosa Bl.
Rated, common. Fl. 23.7.67 (9231, 9797).
Loc. name: Bans sukhadi.

C. undulata R. Br.
C. obliqua Buch.-Ham. ex D. Don (non Vahl)
Patalkot. Fl. 22.8.68. (10539).

Cyanotis cristata (Linn.) D. Don
Rated. Fl. 26.9.67 (9741).

Murdannia nudiflorum (Linn.) R. Brenan
Patalkot-Chindwara. Fl. 22.8.68 (10521).

M. spiratum (Linn.) Brueckn.
Rated. Fl. 28.9.68 (13079, 13082).

PALMACEAE

Phoenix acaulis Buch.-Ham. ex Roxb.
Occasional in forest (*Shukla* s.n.).

ARACEAE

Arisaema tortuosum Schott
Rated, common. Fl. & Fr. 28.7.67 (9417).
Loc. name: Birbanka.

Colocasia esculenta (Linn.) Schott
Rated. Fl. 17.11.67 (10616).

Plesmonium margaritiferum Schott
Patalkot, in forest (13074).
Loc. name: Muchodi kanda.

CYPERACEAE

Cyperus alulatus Kern
C. iria auct. non Linn.

Karyam, common. Fl. 19.7.67 (9200, 9205).
Loc. name: Gondella.

Cyperus brevifolius (Rottb.) Hassk. subsp. **brevifolius**
Kyllinga brevifolia Roth.
Chimtipur. Fr. 23.11.67 (9459).

C. distans Linn. f.
Rated. Fr. 11.3.67 (8642).

C. exaltatus Retz.
Rated. Fl. 28.8.68 (13079, 13082).

C. paniceus (Rottb.) Boeck
Mariscus paniceus Vahl
Rated, common. Fl. & Fr. 19.7.67 (9197).
Loc. name: Nagarmotha.

C. rotundus Linn.
Rated, common. Fl. & Fr. 19.7.67 (9200).
Loc. name: Gandela.

C. tenuispica Steud.
C. flavidus auct. non Retz.; sensu C. B. Cl. in Fl. Brit. India.
Rated. Fl. & Fr. 14.11.67 (9850).

C. triceps (Rottb.) Engl.
Kyllinga triceps Rottb.
Rated, common. Fl. 21.7.67 (9216).
Loc. name: Mundi.

Eriophorum comosum Wall.
Rated. Fl. 26.2.68 (13009).

Fimbristylis dichotoma (Linn.) Vahl; (non FBI.)
F. diphylla (Retz.) Vahl
F. annua R. & S.
Rated. Fl. 24.7.67 (9248, 9451, 9461).
Loc. name: Botha.

Scleria levis Retz.
S. hebecarpa Nees ex Wight
Chimtipur (9462).

GRAMINEAE

Alloteropsis cimicina (Linn.) Stapf
Chimtipur, common. Fl. & Fr. 25.9.67 (9683, 10561).
Loc. name: Jangli chawal.

Apluda mutica Linn.
Rated, common. Fl. 23.11.67 (9446, 9468, 9683, 9682).

Arthraxon prionodes (Steud.) Hochst.
Patalkot. Fl. 20.2.68 (11912).

A. quartinianus (A. Rich.) Nash
Rated. Fl. 25.9.67 (9760).

Arundinella pumila (Hochst.) Steud.
Karyam. Fl. 25.9.67 (9463, 9633, 9698).

A. setosa Trin. var. **setosa**
Rated. Fl. 15.4.67 (9141, 9151, 10673).
Loc. name: Hirraghas.

Bothriochloa glabra (Roxb.) A. Camus
Rated. Fl. 23.3.67 (9443).

B. intermedia (R. Br.) A. Camus
Karyam. Fl. 19.11.67 (10676).

Coix lacryma-jobi Linn.
Rated. 22.8.68 (10540).

Cymbopogon martinii (Roxb.) Wats
Rated, common (9811, 10649, 11963, 11935).
Loc. name: Gheeghas, Tikhadighas.

Cynodon dactylon (Linn.) Pers.
Rated (9209, 12788).
Loc. name: Dub.

Desmostachya bipinnata Stapf
Rated (9444, 10695).

Dichanthium annulatum (Forsk.) Stapf
Karyam, Rated. Fl. 14.3.67 (8696, 9204, 9469).

Digitaria adscendens (H. B. K.) Henr. subsp. **adscendens**
Chimtipur. Fl. 25.9.67 (9679, 12798).

D. granularis (Trin.) Henr.
Rated. Fl. 23.11.67 (9454).

D. longiflora (Retz.) Pers.
Chimtipur. Fl. 21.7.67 (9214).

Dimeria ornithopoda Trin.
Rated. Fl. 14.11.67 (9849).

Eleusine indica (Linn.) Gaertn.
Rated. Fl. 26.9.67 (9472, 9646).

Eragrostis atrovirens (Desf.) Trin.
Rated. Fl. 23.11.67 (9139, 9455, 9755, 11936).

E. cilianensis (All.) Vignolo-Lutati
Rated. 15.4.67 (9145).

E. japonica (Thunb.) Trin.
Rated. Fl. 25.9.67 (9754).

E. nutans (Retz.) Nees ex Steud.
Rated. Fl. 23.11.67 (9875).
Loc. name: Buchighas.

E. pilosa (Linn.) P. Beauv.
Rated. Fl. 21.7.67 (9210).

E. tenuifolia Hochst. ex Steud.
Chimtipur. Fl. 25.9.67 (9457, 9658, 9685, 10501, 12785, 13055, 13061).

E. unioloides (Retz.) Nees ex Steud.
Rated. Fl. 23.11.67 (9450).

E. viscosa (Retz.) Trin.
Rated. Fl. 14.3.67 (8697, 9449, 11969, 11994).

Eulalia trispicata (Schult.) Henr.
Chimtipur. Fl. 14.11.67 (9846).

Hackelochloa granularis (Linn.) O. Ktze.
Rated. Fl. 25.9.67 (9652, 9674, 9704).

Heteropogon contortus (Linn.) P. Beauv. ex R. & S.
Rated (9448, 10603, 10672).

Imperata cylindrica (Linn.) P. Beauv.
Rated. Fl. 28.7.67 (9294).
Manisuris clarkii (Hack.) Bor.
Chimtipur. Fl. 22.11.67 (10697).
Panicum atrosanguineum Hochst.
Rated. Fl. 19.11.67 (10674).
Panicum notatum Retz.
Rated. Fl. 14.11.67 (9817).
Loc. name: Jangal Kutki.
P. psilopodium Trin.
Chimtipur, 12.3.67 (9759, 13080).
P. sumatrense Roth
Rated. Fl. 22.9.67 (9656, 9657, 10506, 10314, 12792).
Paspalidium flavidum (Retz.) A. Camus
Karyam. Fl. 22.9.67 (9735, 13059).
Paspalum commersonii Lam.
Rated. (2421, 9805).
Loc. name: Jangli Kodo.
Pennisetum hohenackeri Hochst. ex Steud.
Rated. Fl. 23.11.67 (9471).
P. polystachyon (Linn.) Schult.
Rated. Fl. 23.11.67 (9452).
P. pedicellatum Trin.
Chimtipur. Fl. 23.11.67 (9458).
Perotis indica (Linn.) O. Ktze.
Rated. Fl. 24.2.68 (11981).
Pogonatherum paniceum (Lam.) Hack.
Karyam. Fl. 22.2.68 (11977).
Saccharum spontaneum Linn.
In open waste places (*Shukla* s.n.).
Loc. name: Kans.
Schizachyrium brevifolium (Sw.) Nees ex Bose
Rated. Fl. 19.11.67 (10678).
Setaria pallide-fusca (Schum.) Stapf et C.E. Hubb.
Common (9223, 9606, 9694).
S. verticillata (Linn.) P. Beauv.
Rated. Fl. 22.2.68 (9757, 11963).
Sorghum halepense (Linn.) Pers.
Rated. (9467, 9811).
Spodiopogon rhizophorus (Steud.) Pilger
Rated. Fl. 26.9.67 (9614, 9738)
Sporobolus diander (Retz.) P. Beauv.
Karyam. Fl. 28.7.67 (9293, 9676, 12784).
Themeda quadrivalvis (Linn.) O. Ktze.
Rated. 23.11.67 (9466).
T. triandra Forssk.
Rated. 15.3.67 (9119, 9447).
Thysanolaena maxima (Roxb.) O. Ktze.
Rated. Fl. 23.11.67 (8631, 9445).
Loc. name: Phulbuhari.

Urochloa panicoides P. Beauv. var. **panicoides**
Rated. Fl. 23.9.67 (9054, 9703).

BAMBUSACEAE

Dendrocalamus strictus (Roxb.) Nees
Rajakhoh (8672, 13049).
Loc. name: Bans.

PTERIDOPHYTA

MARATTIACEAE

Angiopteris evecta (Forst.) Hoffm.
Rated, common along streams (10624).
Loc. name: Thengi, Ghodatap.

SCHIZAEACEAE

Lygodium flexuosum (Linn.) Sw.
Rated, common in forest undergrowth (10678).
Loc. name: Chitawal, Khokdi, Dokarbutta

GLEICHENIACEAE

Dicranopteris linearis (Burm. f.) Underw.
Glichenia dichotoma Hook.
Common in shady valleys (9160).
Loc. name: Hathajodi, Jhwarikhakra.

PTERIDACEAE

Adiantum capillus-veneris Linn.
Rated, common along water courses (8619, 8700, 9147, 9163, 1602).
A. incisum Forsk.
A. caudatum Linn.
Rated, along streams. (9253, 13073).
A. philippense Linn.
A. lunulatum Burm.
Rated, common in shady places (8616, 9213, 9254, 9775, 9829, 9816).
Loc. name: Chhoti oundhi, Adh-patti, Kalahansraj.
Aleuritopteris farinosa (Forssk.) Fee
Cheilanthes farinosa (Forssk.) Kaulf.
Common in open places, hillsides (8633, 9251, 9604, 9830, 13014).
Loc. name: Adhpatta
***A. rufa** (D. Don) Ching
Cheilanthes rufa D. Don
Patalkot. Fertile: Sept. (9781).
This was so far known from North-West Himalaya, Khasia and Sikkim.
Cheilanthes tenuifolia (Burm.) Sw.
Rated. (9285, 9805).

ASPIDIACEAE

Abacopteris multilineatum (Wall. ex Hook.) Ching
Nephrodium moulmiense Bedd. Ferns Brit. Ind. (p.p.)
Rated. 12.3.67 (8663).
Loc. name: Jatashankri.

Ampelopteris proliferum (Retz.) Copel.
Nephrodium proliferum Keys
Rated. 16.4.67 (9153).

Diplazium esculentum (Retz.) Sw.
Rated. 15.5.67 (9117).
Loc. name: Bhesakand, Kariakuda.

Dryopteris cochleata (D. Don) C. Chr.
Rated. (8864, 9493).

D. sparsa (Buch.-Ham. ex D. Don) O. Ktze.
Rated. Fertile: Nov. (9813, 9146, 9155).

BLECHNACEAE

Blechnum orientale Linn.
Patalkot. 15.9.67 (9855).

POLYPODIACEAE

Paraleptochilus decurrens (Bl.) Copel.
Gymnopteris variabilis Hook.
Rated, common (9162).
Loc. name: Brahmibuti.

EQUISETACEAE

Equisetum debile Roxb. ex Vancher
Rated, common along streams (8637, 9246, 11973, 12567).
Loc. name: Hadjudi

SELAGINELLACEAE

Selaginella involvens (Sw.) Spring.
Rated, common. (10691).
Loc. name: Bhuchappa, Samohini.

S. longifolia Heron
Rated, rare (13003).
Loc. name: Sanjiwani Mardjadi.

LYCOPODIACEAE

Lycopodium cernuum Linn.
Patalkot-Chhindwara in forest. 22.2.68 (11943).
Loc. name: Runijhuni.

PSILOTACEAE

Psilotum nudum (Linn.) Beauv.
P. triquetrum Sw.
Rated, rare (9857).
Loc. name: Bhutbhari.

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